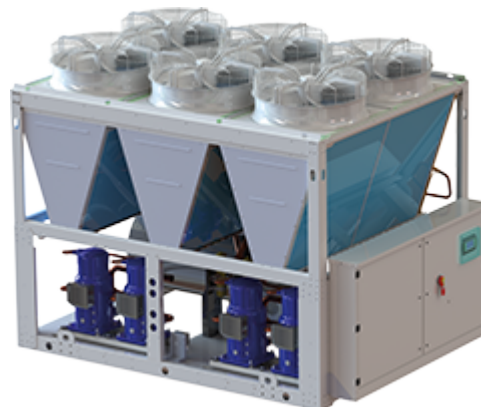




Unit Overview

Range	Sintesis Advantage	
Chiller model	Air-Water Heat Pump Scroll	
Model	CXAF 060 HEat XLN EC R454B	
Unit Application	Process (cool=-20C/50C \ heat=-18C/35C)	
Compressor type	Scroll	
Refrigerant Type	Full charge R454B	
Eta s,c / SEER	176.30 % / 4.48	
Eta s,h / SCOP	142.89 % / 3.65	Compliant
Type of free cooling	No Free Cooling	
Type of pump	Pump signal On/Off	
Electrical supply	400V/50Hz/3Ph	



Note: Pictures are not binding, unit may be depicted with accessories upon request.

Project conditions

	Cooling	Heating
Outdoor air dry bulb temperature	35.0 C	-5.0 C
Relative humidity		90 %
Fluid entering temperature	12.0 C	45.0 C
Fluid leaving temperature	7.0 C	50.0 C
Evap fluid type	Water	Water
Fouling Factor	0.017615 m2-deg C/kW	0.017615 m2-deg C/kW
Elevation	0.0 m	0.0 m

Unit performance data

	Cooling	(1)	Heating	(1)
Gross capacity	206.06 kW		152.19 kW	
Net capacity	205.76 kW		152.38 kW	
Gross unit power	72.10 kW		75.68 kW	
Gross EER / COP	2.86 EER (kW/kW)		2.01	
Net EER / COP	2.83 EER (kW/kW)		2.01	
Design flow rate	9.82 L/s		7.36 L/s	
Evaporator Pressure drop (Design)	33.0 kPa		18.3 kPa	
Evaporator Min Flow	4.80 L/s		4.80 L/s	
Evaporator Max Flow	20.20 L/s		20.20 L/s	

Acoustic data

Outdoor sound power level		92 dBA						(4)
Outdoor sound pressure level		60 dBA						(3)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Sound power spectrum (Lwa)	97 dB	93 dB	89 dB	86 dB	84 dB	78 dB	73 dB	

**General data - refrigerant circuit**

Refrigerant Type	Full charge R454B	
Refrigerant GWP (AR4)	466.00	
Number of circuits	2	
Number of compressors (circuit 1 / 2)	2 / 2	
Compressor type	Scroll	
Compressor regulation type	Fixed Speed	
Oil charge per circuit	12 kg	
Refrigerant charge per circuit	21 kg	21 kg

General data - fan section

Number of outdoor fans	4
Fan type	EC for HESP
Total condenser air flow	27.06 m3/s

Electrical Information

Electrical supply	400V/50Hz/3Ph
Power factor capacitor	Without
Current	118.76 A
Compressor soft starter	Included
Start-up current	242.43 A
Max amps	155.24 A
Maximum power at maximum current	95.16 kW
Displacement power factor (cos-phi)	0.89

Dimensions and weight

Length	2505 mm
Width	1997 mm
Height	2412 mm
Unit shipping weight	1681 kg
Operating weight	1710 kg

Note: Dimensions and weight include sound attenuation, hydraulic module, heat recovery and/or free cooling.

Applicable standards

(1) According to EN14825:2018, considering average climate
(2) According to EN14511:2018
(3) Average sound pressure at 10 meter distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level
(4) Sound power measurements in accordance with ISO 9614:2009 (part 1)
(5) Performance rating out of scope of Eurovent certification program

More information

Ecodesign datasheet	https://www.trane.com/litweb/Litweb.aspx?#/category/bd13efa5-a5bf-4f0a-afb4-9eab178d9081/range/b74e96bd-4126-4223-8f8e-b32ceedbf233/model/dc7016f4-41b0-4fbb-91cc-06ced1b6c39f/section/6045999d-f30d-4f1d-b718-e44ad28e6a5c
Model Number	CXAF060DT**RCXE3WWNBXBXBXEBXF1LXXXXXXXX1EXBAXX2X XXXBA3XX